

## **List of Current Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 13 (Cancelled).

14. (New) An apparatus for measuring and/or monitoring the flow of a medium to be measured, flowing through a measuring tube in the direction of the longitudinal axis of the measuring tube, comprising:

a magnet arrangement which produces a magnetic field passing through the measuring tube and running essentially transversely to the longitudinal axis of the measuring tube;

two measuring electrodes which are galvanically or capacitively coupled with the medium to be measured and arranged in such a manner that a measurement voltage is induced in them, evoked by the medium to be measured;

an evaluation/control unit, which, on the basis of the measurement voltage induced in said measuring electrode, or measuring electrodes, provides information concerning the volume flow of the medium to be measured, in the measuring tube;

connecting lines or signal lines by way of which measurement signals are led between said measuring electrodes and said control/evaluation unit, wherein:

said signal lines are arranged essentially in a planar structure.

15. (New) The apparatus as claimed in claim 14, further comprising:  
carrier material, wherein:

said signal lines are applied to said carrier material.



16. (New) The apparatus as claimed in claim 15, wherein:  
said carrier material is flexible and said planar structure comprises a flexprint.

17. (New) The apparatus as claimed in claim 15, wherein:  
said signal lines are arranged on a lateral surface of said flexible carrier layer and symmetrically to the longitudinal axis of said flexible carrier layer; and  
the longitudinal axis is arranged essentially parallel to the principle axis of the magnetic field.

18. (New) The apparatus as claimed in claim 15, wherein:  
said signal lines are so arranged on said carrier material, or on said flexible carrier layer, as the case may be, that the area between said signal lines is minimal.

19. (New) The apparatus as claimed in claim 14, wherein:  
said magnet arrangement includes at least one pole shoe; and  
each pole shoe is composed of a plurality of pole shoe lamellae.

20. (New) The apparatus as claimed in claim 19, wherein:  
said carrier material, or said flexible carrier layer, as the case may be, is integrated with said signal lines into one of two pole shoes.

21. (New) The apparatus as claimed in claim 15, wherein:  
said carrier material, or said flexible layer, on which said signal lines are provided, has, at least in a subsection, the form of a pole shoe lamella; and  
the corresponding planar structure is joined into the pole shoe in the place of the pole shoe lamella arranged in the middle.



22. (New) The apparatus as claimed in claim 14, further comprising:  
at least one essentially planar electronic component on said planar structure.

23. (New) The apparatus as claimed in claim 15, further comprising:  
mechanical coding is provided on said carrier material or on said planar structure.

24. (New) An arrangement for leading signal lines and/or connecting lines in a pole shoe of a magnet arrangement, the magnet arrangement preferably is a part of a magneto-inductive flow measuring device, comprising a plurality of planar layers, wherein:

at least one of said plurality of planar layers carries essentially planar signal lines and/or connecting lines and is inserted into the pole shoe in place of at least one pole shoe lamella.

25. (New) The arrangement as claimed in claim 24, wherein:  
said signal lines are applied onto at least one of said planar layers.

26. (New) The arrangement as claimed in claim 24, wherein: ,  
said plurality of planar layers are flexible layers.